

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Steve Durham.

Confirmation No. 3549

Application No.: 10/679,075

Attorney Docket No: 7845-A06-002

Filed: October 3, 2003

Group Art Unit: 3637

For: ENERGY GENERATING SHELTER SYSTEM AND
METHOD

Examiner: Phi Dieu Tran A

DECLARATION UNDER 37 C.F.R. 1.131(a)

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

I, Steve Durham, the Applicant in the above-identified patent application, declare as follows:

1. That sometime prior to August 6, 2002, Applicant conceived and reduced to practice the Energy Generating Shelter System and Method as disclosed and claimed in the above-identified patent application. Exhibit A includes a notarized statement from the Applicant indicating the date of invention, prior to August 6, 2002;

2. That the Energy Generating Shelter System and Method conceived and reduced to practice prior to August 6, 2002 included a canopy defining a sheltered area thereunder, the sheltered area including at least one vehicle parking space. The canopy including an upper surface having a first photovoltaic device, a lower surface having a second photoelectric device, and a light emitting diode device, wherein the first and second photovoltaic devices are capable of producing an electrical current when exposed to light. A supporting structure connected to and supporting the canopy and permitting substantially unobstructed access by a vehicle to the sheltered area. An electrical load operatively connected to the photovoltaic device for utilizing the electrically generated by the photovoltaic device when the photovoltaic device is exposed to

light, wherein the shelter has no walls;

3. That the Energy Generating Shelter System and Method conceived and reduced to practice prior to August 6, 2002 included a canopy defining a sheltered area thereunder, the sheltered area including at least one vehicle parking space. A supporting structure connected to and supporting the canopy and permitting substantially unobstructed access by a vehicle to the sheltered area. A photovoltaic device associated with the canopy, the photovoltaic device being capable of producing an electrical current when exposed to sunlight, the photovoltaic device including a light emitted coating and the photovoltaic device is capable of generating electricity from the light emitted by the light emitting coating. An electrical load operatively connected to the photovoltaic device for utilizing the electrically generated by the photovoltaic device when the photovoltaic device is exposed to light, wherein the shelter has no walls, and

4. That Applicant produced or had produced drawings, built scale models, and built and full scale model of the Energy Generating Shelter System and Method prior to August 6, 2002 as evidenced by Exhibit B attached hereto. Exhibit B includes drawings and sketches, produced prior to August 6, 2002 illustrating the Energy Generating Shelter System and Method;

5. That Applicant disclosed the Energy Generating Shelter System and Method prior to August 6, 2002 to Applicant's then Patent Attorney James D. Ryndak for the intended purpose of preparing and filing the above-referenced Patent Application. Exhibit A includes a notarized statement from the Applicant indicating the disclosure of the Energy Generating Shelter System and Method to Applicant's then Patent Attorney James D. Ryndak, prior to August 6, 2002.

Applicant: S. Durham.
Application No.: 10/879,878
Examiner: Phi Dieu Tran A

The declarant further states that the above statements were made with the knowledge that willful false statements and the like are punishable by fine and/or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statement may jeopardize the validity of this application or any patent resulting therefrom.

Date: 3-2-07

Steven Durham

Steve Durham

EXHIBITS A-B Attached

Applicant: S. Durham
Application No.: 10/679,075
Examiner: Phi Dieu Tran A

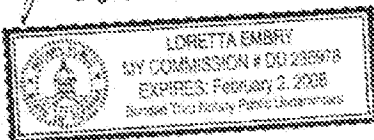
EXHIBIT A

I Steven Durham conceived and reduced to practice the Energy Generating Shelter System and Method ("the invention") as disclosed and claimed in U.S. Patent Application No. 10/679,075 prior to August 6, 2002.

In the conception and reduction of practice of the invention, I produced or had produced drawings, built scale models, and built a full scale model of the invention prior to August 6, 2002.

Furthermore, I disclosed the invention to my then Patent Attorney for the purpose of filing a U.S. Patent Application prior to August 6, 2002.

LHA Ea Loretta Embry, Steven Durham



3-6-07

Applicant: S. Durham.
Application No.: 10/679,078
Examiner: Phi Dieu Tran A

EXHIBIT B

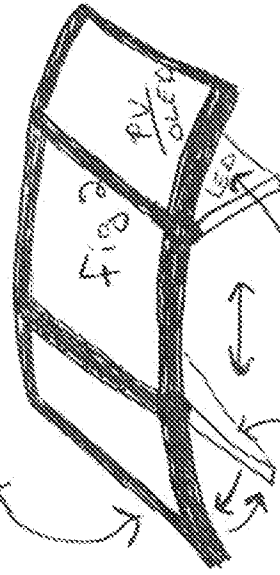
* Improved Carport Roof & Alternate Embodiment for Display/Roof

2000 © Steve Durham
 Wm. Durham
 Michael Davis

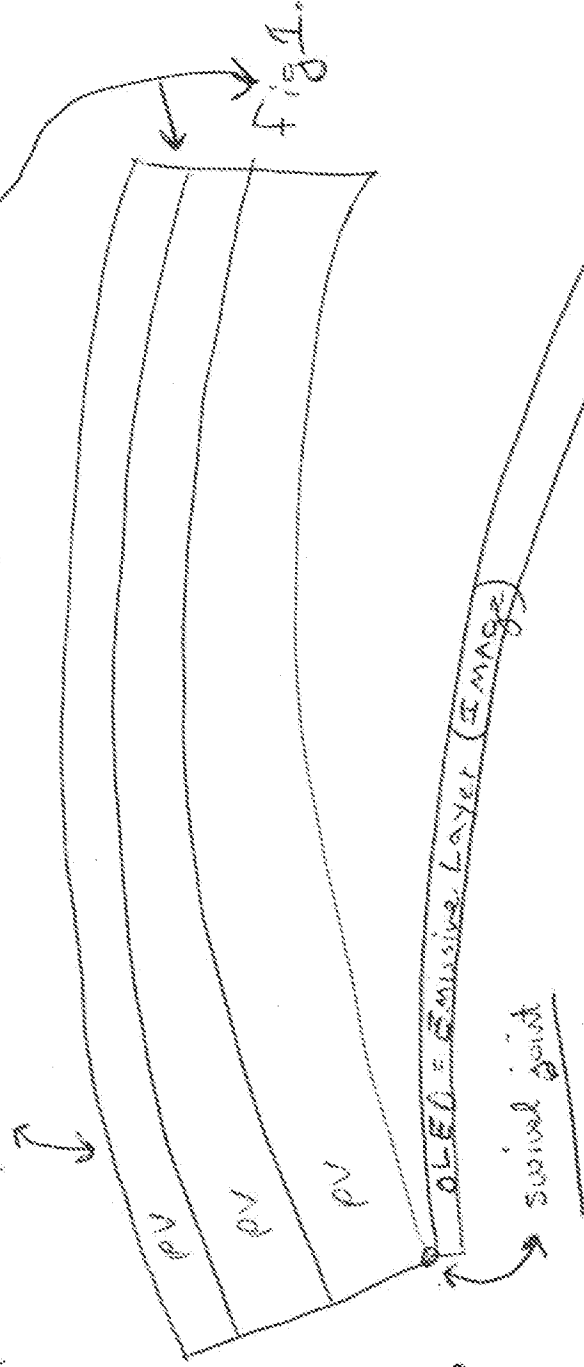
Diagram # 6

(shaded area) is frame of Roof
 → Directional Roof
 Panel Swivel

Alternate Embodiment
of Fig 1



— The Sectional Part of this PV & OLED Carport Roof can Tilt or Swivel ↑



— This Layer of Roof Panel Device can Move/Tilt & Be Articulated from the (PV) Device, But still Attached within the Roof's Vicinity

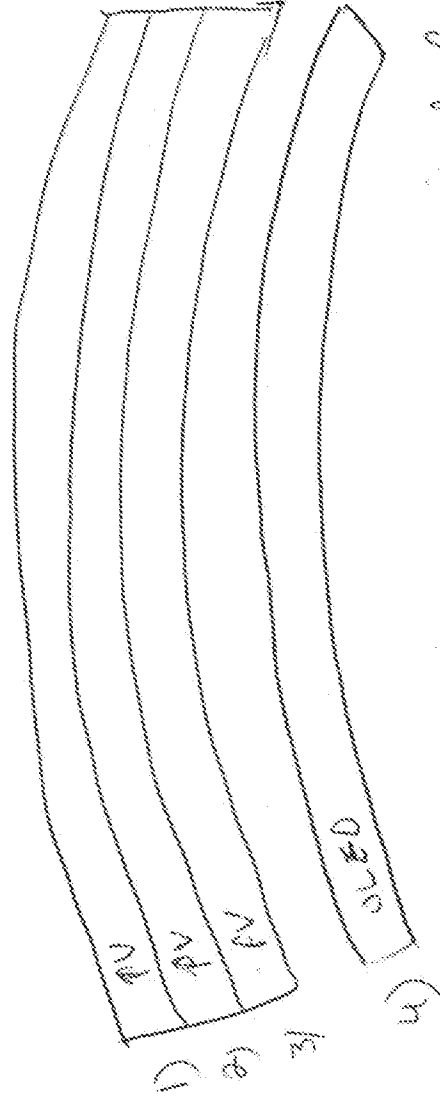
(OLED) = Emissive Layer
 (PV) = Photo Voltaic

— Light can escape from & be emitted by the OLED Device

Diagram # 7

Carport Roof Panel with (PV) & (OLED) Layers
used Alternatively

2000 © Steve Durbin
Mona Durbin
Michael Durbin



— This OLED Layer can be unattached
from the (PV) Layers & Bonded with Temporary
Glue or Clamps

— Alternative Embodiment of OLED can be placed
in the Roofs Vicinity & Unattached from the
Roof Panel

Framed Roof Panels can tilt

Diagram #8

Mona Ducharme
Michael Joyce

2001 © Steve Ducharme



Sectional Blow-up of Roof Panel Tilting

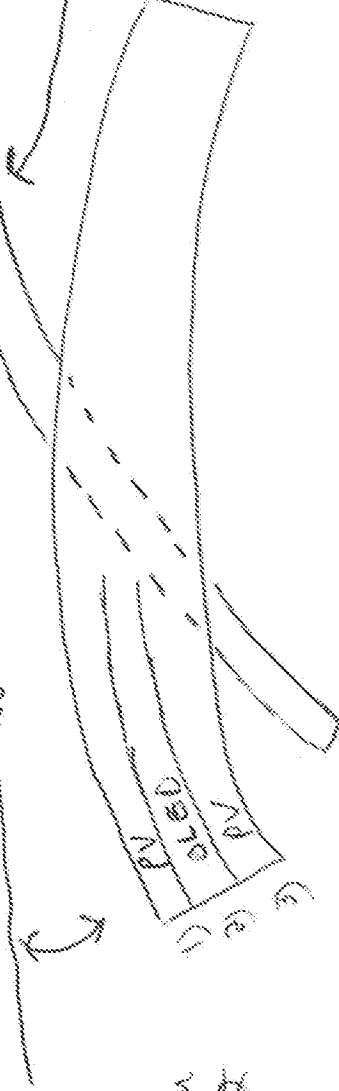


Diagram #2

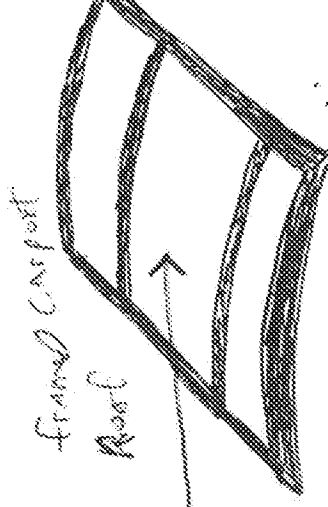


Diagram #1

Tilting
panel in the
Framed Roof

- Blow-up of Roof Panel that can tilt within the

Framed Roof Section

- Bottom of Roof Can Display Images/Text so

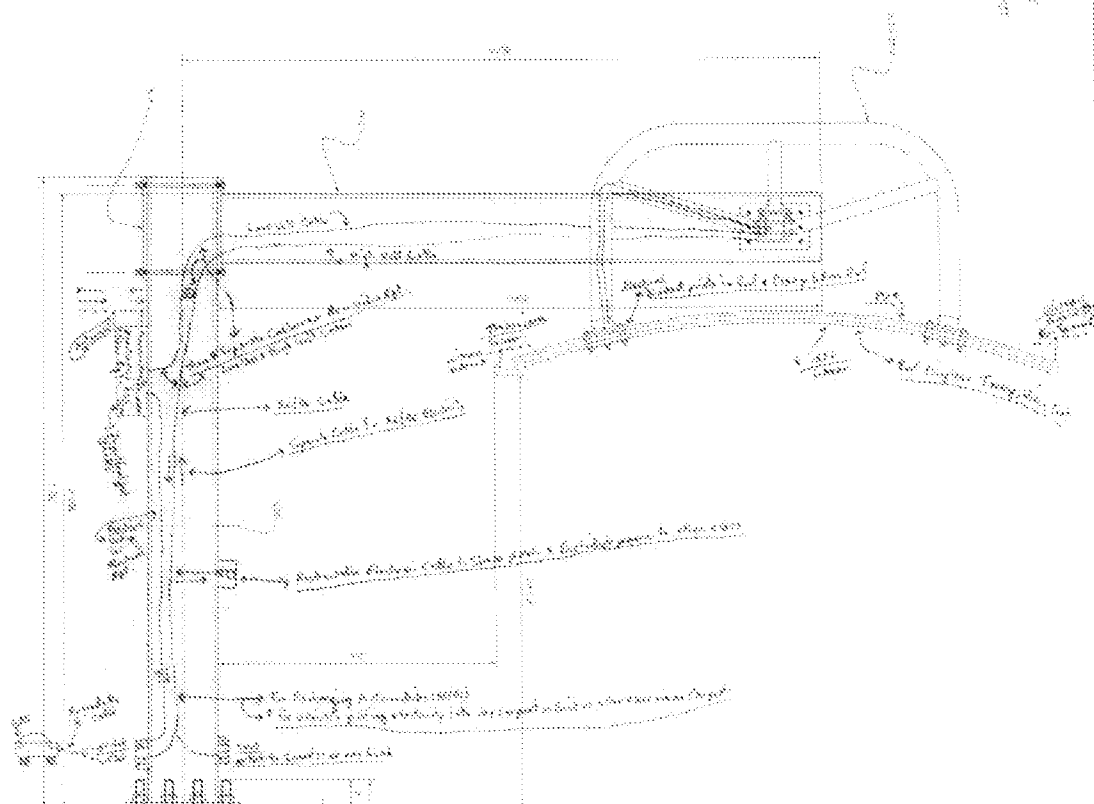
Vehicles Parked underneath Can see Advertisements Illuminate

For Night Viewing

PV = Photovoltaic

LED = Emissive Layer

1. The first part of the drawing shows the plan view of the building. The building is rectangular with a central corridor. The corridor is 10m wide and 20m long. The rooms on either side of the corridor are 5m wide and 10m long. The total area of the building is 100m².



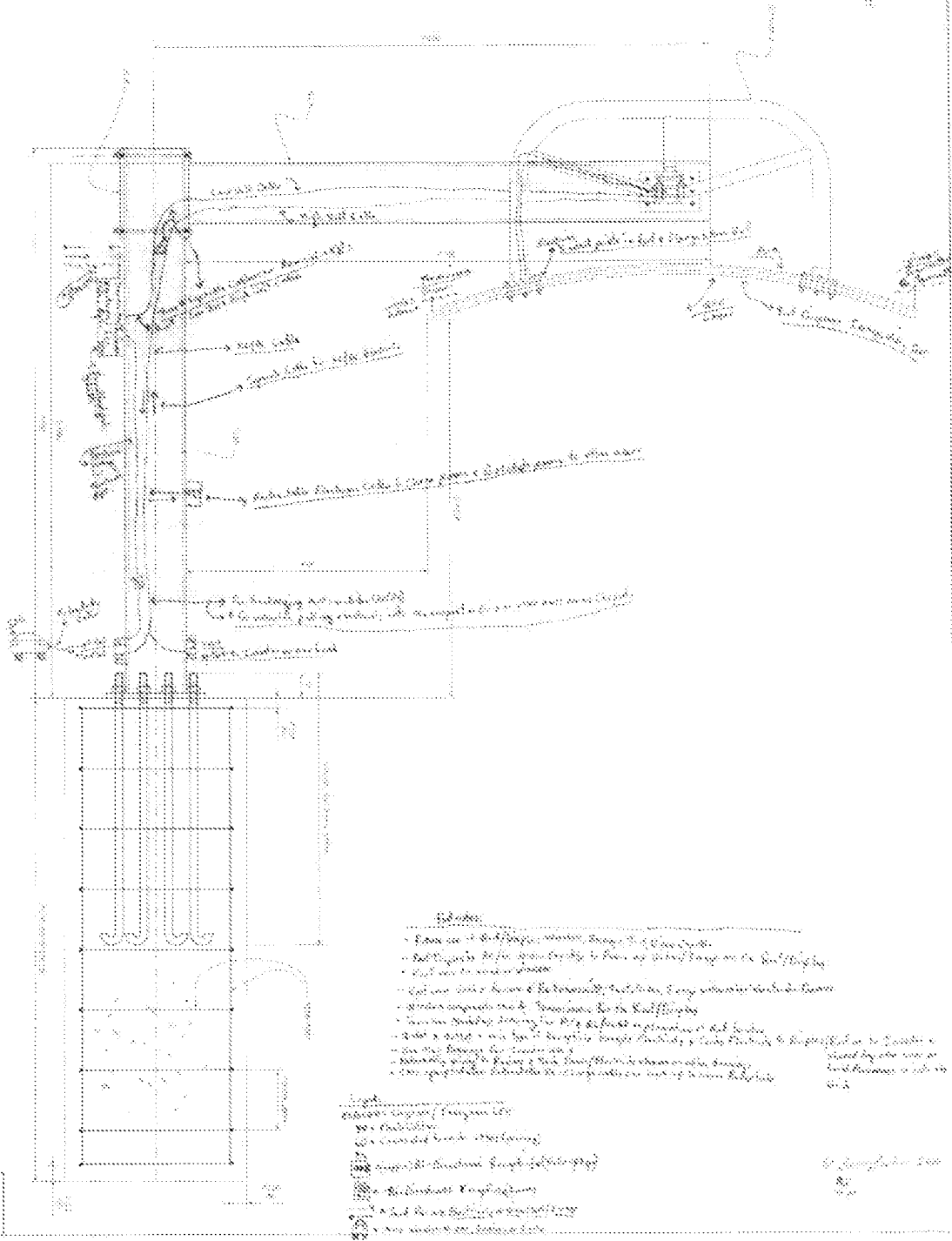
Legende

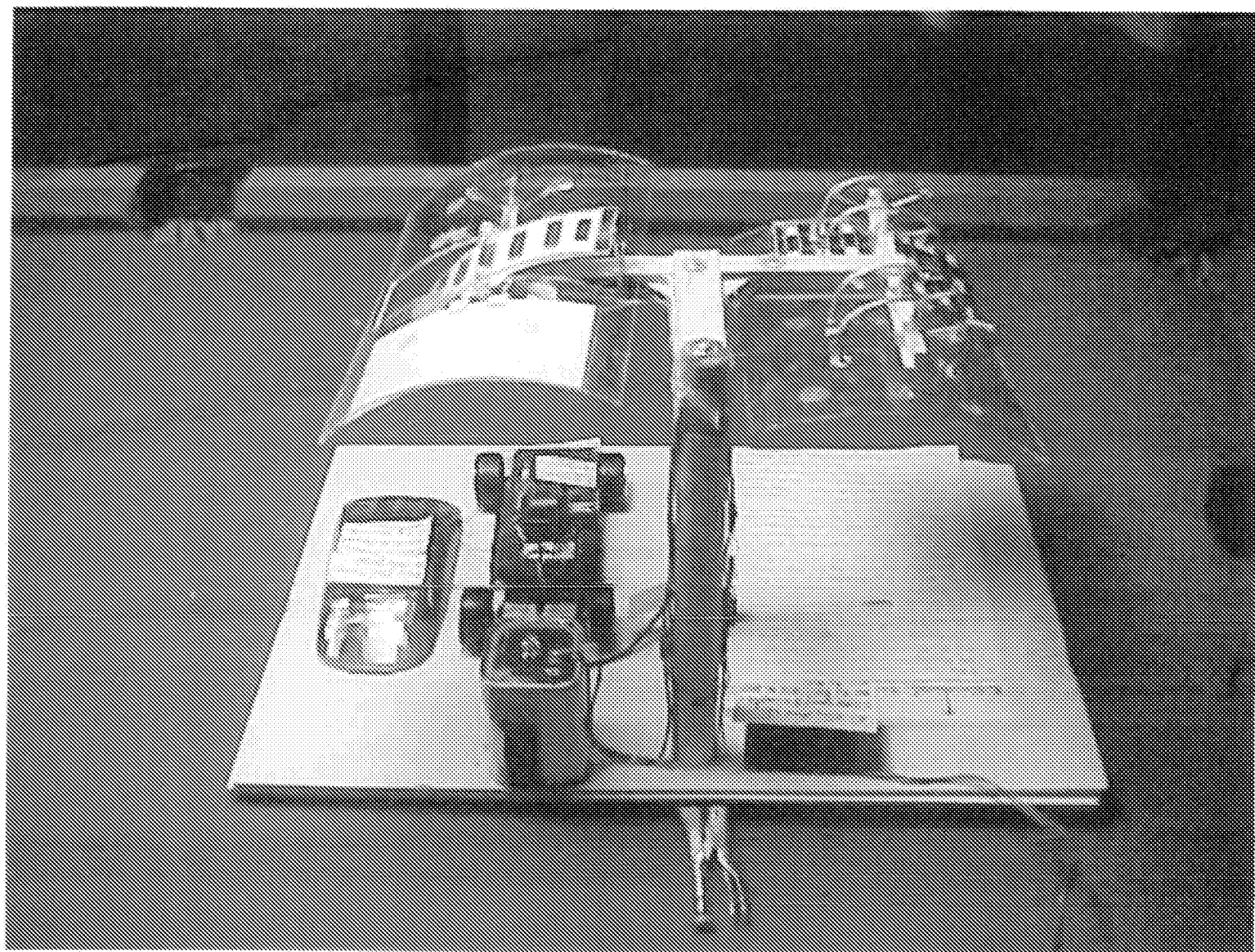
- Räume des 1. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 2. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 3. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 4. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 5. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 6. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 7. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 8. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 9. Stockes (Wohnen, Esszimmer, Küche, etc.)
- Räume des 10. Stockes (Wohnen, Esszimmer, Küche, etc.)

Maße

- Länge des Gebäudes: 20m
- Breite des Gebäudes: 10m
- Höhe des Gebäudes: 10m
- Fläche des Gebäudes: 100m²
- Volumen des Gebäudes: 1000m³

1. The first part of the drawing shows the plan view of the building. The building is rectangular with a central corridor. The corridor is 10m wide and 20m long. The rooms on either side of the corridor are 5m wide and 10m long. The total area of the building is 100m².





Bi-Directional
Charger/Inverter
AC to DC - DC to DC
DC to AC

↑ ↑
Bi-Directional Inverter/Charger

- This inverter/Charger can Power up the PhotoVoltaic-EL Electroluminescent Roof
 - The Electroluminescent Roof can accept AC/DC electricity and Illuminate
 - The emissive Roof when powered up by
- ... it combined with